

Checklist of the smaller families of Opomyzoidea, Anthomyzidae, Asteiidae, Aulacigastridae, Clusiidae, Odiniidae, Opomyzidae and Periscelididae (Diptera) of Finland

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Academic editor: J. Salmela | Received 5 February 2014 | Accepted 6 March 2014 | Published 19 September 2014

http://zoobank.org/E23D8F38-F588-47EE-8AA2-FD5DAECBCA1D

Citation: Kahanpää J (2014) Checklist of the smaller families of Opomyzoidea, Anthomyzidae, Asteiidae, Aulacigastridae, Clusiidae, Odiniidae, Opomyzidae and Periscelididae (Diptera) of Finland. In: Kahanpää J, Salmela J (Eds) Checklist of the Diptera of Finland ZooKeys 441: 285–290. doi: 10.3897/zookeys.441.7141

Abstract

A species checklist is presented for Finland covering seven smaller families of Opomyzoidea: Anthomyzidae, Asteiidae, Aulacigastridae, Clusiidae, Odiniidae, Opomyzidae and Periscelididae (Diptera).

Keywords

Checklist, Finland, Diptera, biodiversity, faunistics

Introduction

The superfamily Opomyzoidea is likely to be para- or polyphyletic (see Wiegmann et al. 2011). It has long been used as a dumping grounds for acalyptrate taxa that do not fit well elsewhere. As such, the superfamily is poorly defined and hardly any two authors agree on its definition. Opomyzoidea includes one large family (Agromyzidae, the leaf-mining flies, with over 3000 described species) and more than a dozen small families. The exact number of recognized families varies. The Agromyzidae are treated

Family	Number of species in			T 1 C1 1 1
	World (Pape et al. 2011)	Europe	Finland	Level of knowledge
Anthomyzidae	93	28	15	average
Asteiidae	136	18	6	average
Aulacigastridae	18	4	2	good
Clusiidae	360	14	12	good
Odiniidae	64	14	5	average
Opomyzidae	59	33	16	average
Periscelididae	83	6	4	average

Table 1. Number of species by family.

elsewhere in this volume of ZooKeys. The remaining opomyzoid families are presented here in alphabetical order.

Hackman (1980) last listed the Finnish species of these families. World catalogues have recently been published for Periscelididae (Mathis and Rung 2011) and Odiniidae (Gaimari and Mathis 2011). For Anthomyzidae the Revision of West Palearctic Anthomyzidae by Roháček (2006, 2009) is followed. Three of the four Palearctic *Aulacigaster* species have been found in Europe (Kassebeer 2001, Rung and Mathis 2011). Papp and Withers (2011) reviewed the Palearctic Periscelidinae and proposed some nomenclatorial changes. Hackman's (1959) review of the Finnish opomyzid fauna is still valuable but several additional species have since been recognized.

Checklist

suborder Brachycera Macquart, 1834 clade Eremoneura Lameere, 1906 clade Cyclorrhapha Brauer, 1863 infraorder Schizophora Becher, 1882 clade Muscaria Enderlein, 1936 parvorder Acalyptratae Macquart, 1835 superfamily Opomyzoidea Fallén, 1820

ANTHOMYZIDAE Czerny, 1903
ANTHOMYZA Fallén, 1810
Anthomyza collini Andersson, 1976
Anthomyza dissors Collin, 1944
Anthomyza elbergi Andersson, 1976
= sordidella auct. nec (Zetterstedt, 1848)
Anthomyza gracilis Fallén, 1823
Anthomyza macra Czerny, 1928
Anthomyza pallida (Zetterstedt, 1838)
= unguicella (Zetterstedt, 1838)

Anthomyza paraneglecta Elberg, 1968

Anthomyza pleuralis Czerny, 1928

ARGANTHOMYZA Roháček, 2009

Arganthomyza socculata (Zetterstedt, 1847)

= ungulata (Loew, 1873)

CAREXOMYZA Roháček, 2009

Carexomyza caricis (Roháček, 1999)

FUNGOMYZA Roháček, 1999

Fungomyza albimana (Meigen, 1830)

PARANTHOMYZA Czerny, 1902

Paranthomyza nitida (Meigen, 1838)

STIPHROSOMA Czerny, 1928

= Ptenotaenia Enderlein, 1936

Stiphrosoma laetum (Meigen, 1830)

= cingulatum misid.

Stiphrosoma sabulosum (Haliday, 1837)

TYPHAMYZA Roháček, 1992

Typhamyza bifasciata (Wood, 1911)

ASTEIIDAE Rondani, 1856

ASTEIINAE Rondani, 1856

ASTEIA Meigen, 1830

sg. Asteia Meigen, 1830

Asteia amoena Meigen, 1830

Asteia concinna Meigen, 1830

Asteia elegantula Zetterstedt, 1847

SIGALOESSINAE Sabrosky, 1956

LEIOMYZA Macquart, 1835

Leiomyza dudai Sabrosky, 1956

Leiomyza laevigata (Meigen, 1830)

Leiomyza scatophagina (Fallén, 1823)

AULACIGASTRIDAE Duda, 1924 AULACIGASTER Macquart, 1835

= Aulacogaster emend.

Aulacigaster leucopeza (Meigen, 1830) Aulacigaster pappi Kassebeer, 2001

CLUSIIDAE Handlirsch, 1884

CLUSIINAE Handlirsch, 1884

CLUSIA Haliday, 1838

= *Paraclusia* Czerny, 1903

Clusia flava (Meigen, 1830)

Clusia tigrina (Fallén, 1820)

CLUSIODINAE

CLUSIODES Coquillett, 1904

= *Heteroneura* Fallén, 1823 preocc.

Clusiodes albimanus (Meigen, 1830)

Clusiodes apicalis (Zetterstedt, 1848)

Clusiodes caledonicus (Collin, 1912)

= gentilis misid.

Clusiodes freyi Tuomikoski, 1933

Clusiodes geomyzinus (Fallén, 1823)

Clusiodes microcercus Stackelberg, 1955

Clusiodes pictipes (Zetterstedt, 1855)

Clusiodes ruficollis (Meigen, 1830)

Clusiodes verticalis (Collin, 1912)

HENDELIA Czerny, 1903

Hendelia beckeri Czerny, 1903

ODINIIDAE Hendel, 1920

ODINIINAE Hendel, 1920

NEOALTICOMERUS Hendel, 1903

Neoalticomerus formosus (Loew, 1844)

ODINIA Robineau-Desvoidy, 1830

Odinia boletina (Zetterstedt, 1848)

Odinia czernyi Collin, 1952

= meijerei misid.

Odinia ornata (Zetterstedt, 1838)

Odinia xanthocera Collin, 1952

OPOMYZIDAE Fallén, 1820

ANOMALOCHAETA Frey, 1921

Anomalochaeta guttipennis (Zetterstedt, 1838)

GEOMYZA Fallén, 1810

Geomyza angustipennis Zetterstedt, 1847

Geomyza apicalis (Meigen, 1830)

Geomyza consobrina Zetterstedt, 1847

Geomyza hackmani Nartshuk, 1984

- = combinata auct. nec (Linnaeus, 1767)
- = balachowskyi misid.

Geomyza majuscula (Loew, 1864)

= breviforceps Hackman, 1959

Geomyza martineki Drake, 1992

Geomyza paganettii (Strobl, 1909)

Geomyza pilosula Czerny, 1928

Geomyza tripunctata Fallén, 1823

OPOMYZA Fallén, 1820

Opomyza florum (Fabricius, 1794)

Opomyza germinationis (Linnaeus, 1758)

Opomyza lineatopunctata von Roser, 1840

Opomyza nigriventris Loew, 1865

Opomyza punctata Haliday, 1833

Opomyza punctella Fallén, 1820

PERISCELIDIDAE Oldenberg, 1914

PERISCELIDINAE Oldenberg, 1914

MYODRIS Lioy, 1864

= Microperiscelis Oldenberg, 1914

Myodris annulata (Fallén, 1813)

PERISCELIS Loew, 1858

Periscelis annulipes Loew, 1858

Periscelis nigra (Zetterstedt, 1860)

Periscelis winnertzii Egger, 1862

Excluded species

Clusiodes gentilis (Collin, 1912) misidentified Geomyza balachowskyi Mesnil, 1934 misidentified Odinia meijerei Collin, 1952 misidentified

Notes

Aulacigaster pappi Kassebeer, 2001. Most of the Finnish Aulacigaster material belong to this species, including all specimens currently stored in the Finnish Museum on Natural History (MZH). Storå (1956, 1957) and Hackman (1980) misidentified A. pappi as A. leucopeza. A few Finnish specimens of the real A. leucopeza were found in private collections.

Clusiodes gentilis (Collin, 1912). Lonsdale and Marshall (2007) record this species from Finland on a map. The data is apparently taken from Frey (1928). As Tuomikoski (1936) has pointed out, Frey misidentified C. caledonicus as C. gentilis.

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